

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/048516 A2

- (51) International Patent Classification⁷: **C12N**
- (21) International Application Number:
PCT/US2003/037200
- (22) International Filing Date:
21 November 2003 (21.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/428,335 22 November 2002 (22.11.2002) US
- (71) Applicant (*for all designated States except US*): **NORTH SHORE-LONG ISLAND JEWISH RESEARCH INSTITUTE** [US/US]; 350 Community Drive, Manhasset, NY 11030 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KAPLAN, Mark, H.** [US/US]; 2862 Valerie Ct., Merrick, NY 11566 (US). **WANG, Xue-Ping** [CN/US]; 18 Pequot Avenue, Port Washington, NY 11050 (US). **DOSIK, Michael, H.** [US/US]; 22 Conscience Ct., East Seatauket, NY 11733 (US).
- (74) Agents: **ARNOLD, Craig, J. et al.**; Amster, Rothstein & Ebenstein LLP, 90 Park Avenue, New York, NY 10016 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ELF3 GENE COMPOSITIONS AND METHODS

(57) Abstract: ELF3 gene compositions associated with cancer are provided, including ELF3 mRNA intron retention, a novel ELF3 5' untranslated region, and a novel Alu, Alu_{kwd}. Methods and kits using primers or probes to detect the presence of these ELF3 gene compositions are also provided. Methods for determining whether a cell comprises a virus are also provided.



WO 2004/048516 A2